



PATENTS

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:

Murray et al. ) Confirmation No.: **7799**  
Serial No.: **10/773,692** ) Art Unit: **3663**  
Filed: **February 6, 2004** )  
For: **Communications Device for** )  
**Conveying Geographic Location** )  
**Information Over Capacity** )  
**Constrained Wireless Systems** )

**INFORMATION DISCLOSURE STATEMENT**

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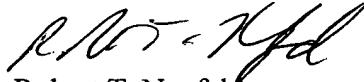
Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Applicants cite the information on the attached Form PTO-1449, "List of Information Disclosed by Applicant," pursuant to 37 C.F.R. §§ 1.56, 1.97, and 1.98. Applicants have enclosed a copy of each cited item.

The citation of this information does not constitute an admission of priority or that any cited item is available as a reference, or a waiver of any right the applicant may have under applicable statutes, Rules of Practice in patent cases, or otherwise.

Respectfully submitted,

  
Robert T. Neufeld  
Reg. No. 48,394

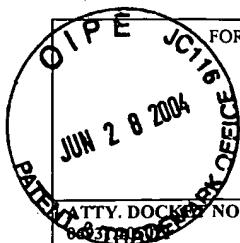
King & Spalding LLP  
191 Peachtree Street, N.E., 45<sup>th</sup> Floor  
Atlanta, GA 30303  
404.572.4600  
K&S Docket: 06931.105021 US  
3514346

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450, on June 25, 2004.

  
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(Use several sheets if necessary)

ATTY. DOCKET NO.  
3663SERIAL NO.  
10/773,692FILING DATE  
February 6, 2004APPLICANT  
Murray et al.GROUP  
3663**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AA	3,581,019	5/25/1971	Ryan, Donald P.			7/30/1968
AB	3,973,200	8/3/1976	Akerberg, Dag E:son			1/23/1975
AC	4,172,969	10/30/1979	Levine et al.			8/30/1976
AD	4,219,698	8/26/1980	Birilli et al.			5/22/1978
AE	4,263,480	4/21/1981	Levine, Alfred B.			7/17/1979
AF	4,284,849	8/18/1981	Anderson et al.			11/14/1979
AG	4,342,986	8/3/1982	Buskirk et al.			5/7/1980
AH	4,361,730	11/30/1982	Barber et al.			8/29/1980
AI	4,371,751	2/1/1983	Hilligoss, Jr. et al.			4/7/1980
AJ	4,454,027	6/12/1984	Fenton, Donald M.			8/16/1982
AK	4,486,624	12/4/1984	Puhl et al.			9/15/1980
AL	4,492,820	1/8/1985	Kennard et al.			10/24/1980
AM	4,644,347	2/17/1987	Lucas et al.			8/10/1983
AN	4,644,351	2/17/1987	Zabarsky et al.			5/8/1984
AO	4,646,082	2/24/1987	Engel et al.			9/14/1984
AP	4,677,653	6/30/1987	Weiner et al.			6/16/1986
AQ	4,724,425	2/9/1988	Gerhart et al.			7/18/1985
AR	4,734,928	3/29/1988	Weiner et al.			3/18/1987
AS	4,750,197	6/7/1988	Denekamp et al.			7/2/1987
AT	4,766,548	8/23/1988	Cedrone et al.			1/2/1987

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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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ATTY. DOCKET NO. 06931.105021	SERIAL NO. 10/773,692	FILING DATE February 6, 2004
APPLICANT Murray et al.		GROUP 3663

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	BA	4,791,658	12/13/1988	Simon et al.			7/9/1986
	BB	4,807,225	2/21/1989	Fitch, Richard C.			2/2/1987
	BC	4,814,763	3/21/1989	Nelson et al.			12/14/1987
	BD	4,823,123	4/18/1989	Siwiak, Kazimierz			1/7/1988
	BE	4,825,193	4/25/1989	Siwiak et al.			1/7/1988
	BF	4,825,457	4/25/1989	Lebowitz, Mayer M.			4/25/1988
	BG	4,833,701	5/23/1989	Comroe et al.			1/27/1988
	BH	4,837,800	6/6/1989	Freeburg et al.			3/18/1988
	BI	4,839,917	6/13/1989	Oliver, Stewart W.			10/29/1987
	BJ	4,866,445	9/12/1989	Valero et al.			12/23/1987
	BK	4,868,560	9/19/1989	Oliwa et al.			5/11/1988
	BL	4,868,859	9/19/1989	Sheffer, Eliezer A.			6/12/1987
	BM	4,875,038	10/17/1989	Siwiak et al.			1/7/1988
	BN	4,875,230	10/17/1989	Blair, Kevin B.			7/25/1988
	BO	4,882,579	11/21/1989	Siwiak, Kazimierz			1/7/1988
	BP	4,887,290	12/12/1989	Dop et al.			8/5/1987
	BQ	4,887,291	12/12/1989	Stillwell, James T.			7/23/1987
	BR	4,890,315	12/26/1989	Bendixen et al.			12/29/1988
	BS	4,891,637	1/2/1990	Siwiak et al.			1/7/1988
	BT	4,891,638	1/2/1990	Davis, Walter L.			10/30/1987

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
CA	4,901,340	2/13/1990	Parker et al.			9/19/1988
CB	4,905,234	2/27/1990	Childress et al.			6/3/1987
CC	4,914,651	4/3/1990	Lusignan, Bruce			9/20/1988
CD	4,928,096	5/22/1990	Leonardo et al.			4/17/1989
CE	4,940,963	7/10/1990	Gutman et al.			3/10/1989
CF	4,972,460	11/20/1990	Sasuta, Michael D.			9/29/1989
CG	4,979,169	12/18/1990	Almond et al.			2/14/1989
CH	4,993,059	2/12/1991	Smith et al.			2/8/1989
CI	5,005,014	4/2/1991	Jasinski, Leon			5/22/1989
CJ	5,010,584	4/23/1991	Seki, Kenji			9/6/1989
CK	5,020,091	5/28/1991	Krolopp et al.			12/26/1989
CL	5,020,093	5/28/1991	Pireh, Ali			12/20/1989
CM	5,027,383	6/25/1991	Sheffer, Eliezer A.			2/17/1989
CN	5,031,204	7/9/1991	McKernan, Randolph W.			2/13/1990
CO	5,047,763	9/10/1991	Kuznicki et al.			11/30/1989
CP	5,073,919	12/17/1991	Hagensick, Thomas E.			10/10/1990
CQ	5,090,051	2/18/1992	Muppidi et al.			3/18/1991
CR	5,117,449	5/26/1992	Metroka et al.			4/8/1991
CS	5,121,503	6/9/1992	Davis, Walter L.			9/13/1991
CT	5,124,697	6/23/1992	Moore, Morris			10/16/1989

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	DA	5,131,019	7/14/1992	Sheffer et al.			3/21/1990
	DB	5,134,644	7/28/1992	Garton et al.			8/17/1990
	DC	5,142,279	8/25/1992	Jasinski et al.			8/5/1991
	DD	5,148,473	9/15/1992	Freeland et al.			10/15/1991
	DE	5,153,582	10/6/1992	Davis, Walter L.			8/7/1989
	DF	5,153,902	10/6/1992	Buhl et al.			4/27/1990
	DG	5,153,903	10/6/1992	Eastmond et al.			11/5/1990
	DH	5,159,625	10/27/1992	Zicker, Robert G.			10/24/1990
	DI	5,162,790	11/10/1992	Jasinski, Leon			4/8/1991
	DJ	5,173,933	12/22/1992	Jabs et al.			9/25/1990
	DK	5,175,758	12/29/1992	Levanto et al.			9/4/1990
	DL	5,185,779	2/9/1993	Dop et al.			10/30/1989
	DM	5,196,842	3/23/1993	Gomez et al.			7/22/1991
	DN	5,206,855	4/27/1993	Schwendeman et al.			4/6/1990
	DO	5,210,787	5/11/1993	Hayes et al.			2/5/1991
	DP	5,218,367	6/8/1993	Sheffer et al.			6/1/1992
	DQ	5,220,599	6/15/1993	Sasano et al.			5/28/1991
	DR	5,222,123	6/22/1993	Brown et al.			9/23/1991
	DS	5,230,081	7/20/1993	Yamada et al.			9/18/1990
	DT	5,239,294	8/24/1993	Flanders et al.			12/7/1990

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	EA	5,239,678	8/24/1993	Grube et al.			11/21/1991
	EB	5,247,567	9/21/1993	Hirano, Masahiro			4/29/1992
	EC	5,254,986	10/19/1993	DeLuca, Michael J.			1/25/1991
	ED	5,255,307	10/19/1993	Mizikovsky, Semyon			5/7/1992
	EE	5,265,150	11/23/1993	Helmkamp et al.			1/30/1991
	EF	5,278,539	1/11/1994	Lauterbach et al.			2/11/1992
	EG	5,278,890	1/11/1994	Beeson, Jr. et al.			11/27/1991
	EH	5,307,399	4/26/1994	Dai et al.			3/6/1992
	EI	5,307,509	4/26/1994	Michalon et al.			11/13/1991
	EJ	5,335,278	8/2/1994	Matchett et al.			12/31/1991
	EK	5,341,410	8/23/1994	Aron et al.			7/21/1992
	EL	5,363,427	11/8/1994	Ekstrom et al.			2/26/1992
	EM	5,365,573	11/15/1994	Sakamoto et al.			3/23/1993
	EN	5,369,681	11/29/1994	Boudreau et al.			5/12/1992
	EO	5,371,781	12/6/1994	Ardon, Menachem T.			9/30/1993
	EP	5,371,898	12/6/1994	Grube et al.			7/1/1991
	EQ	5,382,970	1/17/1995	Kiefl, John B.			7/19/1991
	ER	5,386,209	1/31/1995	Thomas, Winston M. H.			11/30/1992
	ES	5,396,537	3/7/1995	Schwendeman, Robert J.			10/19/1992
	ET	5,396,539	3/7/1995	Slekys et al.			12/3/1993

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	FA	5,398,277	3/14/1995	Martin, Jr. et al.			2/6/1992
	FB	5,404,392	4/4/1995	Miller et al.			6/12/1991
	FC	5,432,841	7/11/1995	Rimer, Neil A.			7/10/1992
	FD	5,454,027	9/26/1995	Kennedy et al.			11/9/1993
	FE	5,493,722	2/20/1996	Gunn et al.			1/24/1994
	FF	5,502,761	3/26/1996	Duncan et al.			3/24/1994
	FG	5,511,072	4/23/1996	Delprat, Marc			9/2/1994
	FH	5,511,110	4/23/1996	Drucker, Elliott H.			11/9/1994
	FI	5,517,547	5/14/1996	Ladha et al.			6/20/1995
	FJ	5,519,756	5/21/1996	Clift, Brian K.			2/9/1995
	FK	5,526,401	6/11/1996	Roach, Jr. et al.			10/31/1994
	FL	5,528,664	6/18/1996	Slekys et al.			10/26/1994
	FM	5,530,736	6/25/1996	Comer et al.			7/20/1994
	FN	5,533,094	7/2/1996	Sanmugam, K. Raj			5/12/1992
	FO	5,539,810	7/23/1996	Kennedy, III et al.			12/28/1993
	FP	5,544,223	8/6/1996	Robbins et al.			1/31/1995
	FQ	5,544,225	8/6/1996	Kennedy, III et al.			6/5/1995
	FR	5,546,444	8/13/1996	Roach, Jr. et al.			3/11/1994
	FS	5,574,975	11/12/1996	Hill, Thomas C.			9/5/1995
	FT	5,579,372	11/26/1996	Åström, Bo A. V.			12/12/1994

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GA	5,586,177	12/17/1996	Farris et al.			9/6/1995
GB	5,594,740	1/14/1997	LaDue, Christoph K.			4/3/1996
GC	5,594,945	1/14/1997	Lewis et al.			2/14/1995
GD	5,596,573	1/21/1997	Bertland, Staffan			12/22/1994
GE	5,603,091	2/11/1997	Linquist et al.			10/17/1994
GF	5,610,973	3/11/1997	Comer, Edward I.			1/28/1991
GG	5,619,209	4/8/1997	Horstein et al.			1/14/1994
GH	5,625,889	4/29/1997	Chikkaswamy et al.			1/13/1995
GI	5,629,975	5/13/1997	Tiedemann, Jr. et al.			9/29/1995
GJ	5,640,139	6/17/1997	Egeberg, Gerald W.			9/14/1995
GK	5,648,966	7/15/1997	Kondo et al.			9/21/1995
GL	5,652,570	7/29/1997	Lepkofker, Robert			10/16/1995
GM	5,675,371	10/7/1997	Barringer, David			10/27/1995
GN	5,678,179	10/14/1997	Turcotte et al.			6/7/1995
GO	5,680,551	10/21/1997	Martino, II, John A.			1/31/1996
GP	5,684,858	11/4/1997	Hartmann et al.			8/28/1995
GQ	5,686,888	11/11/1997	Welles, II et al.			6/7/1995
GR	5,701,302	12/23/1997	Geiger, Robert L.			10/25/1995
GS	5,722,067	2/24/1998	Fougnies et al.			12/23/1994
GT	5,742,668	4/21/1998	Pepe et al.			6/6/1995

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	HA	5,742,905	4/21/1998	Pepe et al.			9/19/1994
	HB	5,748,104	5/5/1998	Argyroudis et al.			7/11/1996
	HC	5,751,789	5/12/1998	Farris et al.			11/13/1995
	HD	5,754,954	5/19/1998	Cannon et al.			10/25/1996
	HE	5,761,621	6/2/1998	Sainton, Joseph B.			9/6/1996
	HF	5,781,612	7/14/1998	Choi et al.			3/10/1995
	HG	5,787,149	7/28/1998	Yousefi et al.			11/16/1995
	HH	5,787,357	7/28/1998	Salin, Hannu-Pekka			6/24/1996
	HI	5,790,631	8/4/1998	Minarczik et al.			11/20/1995
	HJ	5,794,144	8/11/1998	Comer et al.			3/25/1996
	HK	5,797,097	8/18/1998	Roach, Jr. et al.			11/2/1995
	HL	5,805,997	9/8/1998	Farris, Robert D.			1/26/1996
	HM	5,819,184	10/6/1998	Cashman, Russell P.			6/28/1995
	HN	5,822,221	10/13/1998	Groenteman, Frank S.			12/4/1996
	HO	5,822,423	10/13/1998	Jehnert et al.			3/20/1996
	HP	5,826,195	10/20/1998	Westerlage et al.			8/5/1996
	HQ	5,845,203	12/1/1998	LaDue, Christoph Karl			1/25/1996
	HR	5,845,211	12/1/1998	Roach, Jr., Peter O.			1/13/1995
	HS	5,862,201	1/19/1999	Sands, Mack			9/12/1996
	HT	5,862,480	1/19/1999	Wild et al.			12/26/1995

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IA	5,862,481	1/19/1999	Kulkarni et al.			4/8/1996
IB	5,873,043	2/16/1999	Comer, Edward Irby			12/18/1996
IC	5,875,863	3/2/1999	Jarvis et al.			3/22/1996
ID	5,878,351	3/2/1999	Alanara et al.			11/7/1996
IE	5,898,917	4/27/1999	Batni et al.			8/27/1996
IF	5,901,142	5/4/1999	Averbuch et al.			9/18/1996
IG	5,909,651	6/1/1999	Chander et al.			5/5/1997
IH	5,913,166	6/15/1999	Buttitta et al.			12/29/1995
II	5,917,886	6/29/1999	Halkio, Jari			5/22/1995
IJ	5,918,172	6/29/1999	Saunders et al.			9/27/1996
IK	5,920,822	7/6/1999	Houde et al.			1/18/1996
IL	5,924,026	7/13/1999	Krishnan, Arjun			3/4/1997
IM	5,946,629	8/31/1999	Sawyer et al.			11/28/1995
IN	5,946,630	8/31/1999	Willars et al.			7/10/1996
IO	6,014,089	1/11/2000	Tracy et al.			8/26/1997
IP	6,018,657	1/25/2000	Kennedy, III et al.			5/5/1997
IQ	6,049,273	4/11/2000	Hess, Brian K.			7/15/1998
IR	6,072,862	6/6/2000	Srinivasan, Thiru			7/2/1996
IS	6,078,820	6/20/2000	Wells et al.			7/6/1999
IT	6,081,514	6/27/2000	Raith, Alex Krister			1/21/1998

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	JA	6,081,546	6/27/2000	Williamson et al.			12/31/1997
	JB	6,097,951	8/1/2000	Ernam et al.			8/6/1998
	JC	6,108,537	8/22/2000	Comer et al.			9/24/1998
	JD	6,108,540	8/22/2000	Sonti et al.			12/24/1997
	JE	6,122,514	9/19/2000	Spaur et al.			1/3/1997
	JF	6,125,275	9/26/2000	Comer et al.			1/26/1998
	JG	6,138,034	10/24/2000	Willey, W. Daniel			2/26/1999
	JH	6,144,722	11/7/2000	Anderson et al.			6/20/1997
	JI	6,144,859	11/7/2000	LaDue, Christoph K.			6/9/1995
	JJ	6,148,202	11/14/2000	Wortham, Larry C.			6/11/1998
	JK	6,150,955	11/21/2000	Tracy et al.			10/28/1996
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